

WHAT IS CLAIMED IS:

1. A light-emitting device comprising:
an active matrix substrate over which a light emitting element having a
5 thin film transistor is formed;
a desiccant; and
a protective unit wrapping the active matrix substrate,
wherein the protective unit is a film at least partially provided with a thin
film comprising a rare gas element and a carbon.
- 10
2. A light-emitting device according to claim 1, wherein the light
emitting element has an anode, a cathode, and an EL material interposed
therebetween.
- 15
3. A light-emitting device according to claim 1, wherein the protective
unit is brought into contact with the active matrix substrate by vacuum press-fitting.
4. A light-emitting device according to claim 1, wherein the film is
covered with a thin film containing carbon.
- 20
5. A light-emitting device according to claim 1, wherein the protective
unit is provided with a thin film that mainly contains carbon inside or outside the
film.
- 25
6. A light-emitting device according to claim 1, wherein the thin film
containing carbon is a DLC film.
7. A light-emitting device according to claim 1, wherein the rare gas
element is one or plural kinds of elements selected from the group consisting of He,
30 Ne, Ar, Kr, and Xe.

8. A light-emitting device according to claim 1, wherein the desiccant is at least one of barium oxide and calcium oxide.

9. A light-emitting device according to claim 1, wherein the
5 light-emitting device is at least one selected from the group consisting of an organic light-emitting display device, a digital camera, a personal computer, a mobile computer, an image reproduction apparatus, a goggle type display, a video camera, and a mobile phone.

10 10. A light-emitting device comprising:
an active matrix substrate over which a light emitting element having a thin film transistor is formed;
a desiccant; and
a protective unit wrapping the active matrix substrate,
15 wherein the protective unit is a film at least partially provided with a silicon oxynitride film containing a rare gas element.

11. A light-emitting device according to claim 10, wherein the desiccant is at least one of barium oxide and calcium oxide.

20

12. A light-emitting device according to claim 10, wherein the
light-emitting device is at least one selected from the group consisting of an organic light-emitting display device, a digital camera, a personal computer, a mobile computer, an image reproduction apparatus, a goggle type display, a video camera,
25 and a mobile phone.

13. A light-emitting device comprising:
an active matrix substrate over which a light emitting element having a thin film transistor is formed;
30 a desiccant; and

a protective unit wrapping the active matrix substrate,
wherein the protective unit is a film at least partially provided with a
silicon nitride film containing a rare gas element.

5 14. A light-emitting device according to claim 13, wherein the desiccant
is at least one of barium oxide and calcium oxide.

15 15. A light-emitting device according to claim 13, wherein the
light-emitting device is at least one selected from the group consisting of an organic
10 light-emitting display device, a digital camera, a personal computer, a mobile
computer, an image reproduction apparatus, a goggle type display, a video camera,
and a mobile phone.

15 16. A light-emitting device comprising:
an active matrix substrate over which a light emitting element having a
thin film transistor is formed;
a desiccant; and
a protective unit wrapping the active matrix substrate,
wherein the protective unit is a film at least partially provided with an
20 AlN_xO_y film containing a rare gas element.

17. A light-emitting device according to claim 16, wherein the desiccant
is at least one of barium oxide and calcium oxide.

25 18. A light-emitting device according to claim 16, wherein the
light-emitting device is at least one selected from the group consisting of an organic
light-emitting display device, a digital camera, a personal computer, a mobile
computer, an image reproduction apparatus, a goggle type display, a video camera,
and a mobile phone.

30

19. A light-emitting device comprising:
an active matrix substrate over which a light emitting element having a
thin film transistor is formed;
a desiccant; and
5 a protective unit wrapping the active matrix substrate,
wherein the protective unit is a film at least partially provided with an
AlN film containing a rare gas element.

20. A light-emitting device according to claim 19, wherein the desiccant
10 is at least one of barium oxide and calcium oxide.

21. A light-emitting device according to claim 19, wherein the
light-emitting device is at least one selected from the group consisting of an organic
light-emitting display device, a digital camera, a personal computer, a mobile
15 computer, an image reproduction apparatus, a goggle type display, a video camera,
and a mobile phone.

22. A light-emitting device comprising:
a substrate over which a light emitting element is formed;
20 a desiccant; and
a protective unit wrapping the substrate,
wherein the protective unit is a film at least partially provided with a thin
film comprising a rare gas element and an inorganic material.

23. A light-emitting device according to claim 22, wherein the rare gas
25 element is one or plural kinds of elements selected from the group consisting of He,
Ne, Ar, Kr, and Xe.

24. A light-emitting device according to claim 22, wherein the desiccant
30 is at least one of barium oxide and calcium oxide.

25. A light-emitting device according to claim 22, wherein the light-emitting device is at least one selected from the group consisting of an organic light-emitting display device, a digital camera, a personal computer, a mobile
5 computer, an image reproduction apparatus, a goggle type display, a video camera, and a mobile phone.

26. A method of manufacturing a light-emitting device comprising the steps of:
10 forming a light emitting element over a substrate having an insulating surface;
thinning a thickness of the substrate;
bonding a flexible printed substrate to an edge of the substrate; and
sealing in vacuum the light emitting element and a part of the flexible
15 printed substrate using a film covered with a thin film mainly containing carbon.

27. A method of manufacturing a light-emitting device according to claim 26, further comprising a step of placing a desiccant in contact with the flexible printed substrate before the vacuum sealing step.
20

28. A method of manufacturing a light-emitting device according to claim 26, wherein the vacuum sealing step employs a thermal press-fitting.

29. A method of manufacturing a light-emitting device according to
25 claim 26, wherein the thin film containing carbon is a DLC film containing a rare gas element.

30. A method of manufacturing a light-emitting device according to claim 26, wherein the rare gas element is one or plural kinds of elements selected
30 from the group consisting of He, Ne, Ar, Kr, and Xe.

31. A method of manufacturing a light-emitting device according to claim 26, wherein the rare gas element contained in the thin film is in a concentration of 0.1 atomic% or higher.

5

32. A method of manufacturing a light-emitting device according to claim 26, wherein the light-emitting device is at least one selected from the group consisting of an organic light-emitting display device, a digital camera, a personal computer, a mobile computer, an image reproduction apparatus, a goggle type
10 display, a video camera, and a mobile phone.

205T20 04E400T